

GenCore version 5.1.4\_p5\_4578  
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OM protein - protein search, using sw model

Run on: March 17, 2003, 07:23:50 ; Search time 6.67176 Seconds  
(without alignments)  
131.262 Million cell updates/sec

Title: US-09-787-082-8

Perfect score: 119

Sequence: 1 GCCSNPVCHELSNLTNG 19

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 199416 seqs, 46092074 residues

Total number of hits satisfying chosen parameters: 199416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA.\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/ECT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep.\*
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- 6: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*
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- 13: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	102	85.7	16	10	US-09-897-465-2
2	102	85.7	17	10	US-09-897-465-3
3	82	68.9	16	10	US-09-897-465-4
4	57.5	48.3	320	9	US-09-991-496-22
5	57.5	48.3	320	9	US-09-991-496-55
6	57.5	48.3	320	10	US-09-874-923-22
7	57.5	48.3	320	10	US-09-874-923-55
8	57.5	48.3	709	9	US-09-991-496-121
9	57.5	48.3	709	10	US-09-874-923-121
10	51	42.9	16	10	US-09-897-465-5
11	51	42.9	17	10	US-09-897-465-6
12	50	42.0	16	10	US-09-897-465-8
13	50	42.0	16	10	US-09-897-465-10
14	50	42.0	16	10	US-09-897-465-12
15	49	41.2	73	10	US-09-764-877-1910
16	48	40.3	621	10	US-09-925-301-1416
17	48	40.3	621	10	US-09-996-620-6
18	46.5	39.1	728	10	US-09-908-322-2
19	46	38.7	75	9	US-10-138-516-6

Sequence 8, Appli  
Sequence 13, Appli  
Sequence 9, Appli  
Sequence 11, Appli  
Sequence 1210, Ap  
Sequence 17, Appli  
Sequence 7, Appli  
Sequence 344, App  
Sequence 101, App  
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Sequence 339, App  
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16 10 US-09-897-465-9  
16 10 US-09-897-465-11  
116 10 US-09-764-869-1210  
547 9 US-10-005-057A-17  
636 9 US-10-005-057A-9  
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118 10 US-09-852-659A-101  
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36.1 1435 9 US-10-176-758-581  
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36.1 1435 9 US-10-173-706-581  
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36.1 1435 9 US-10-175-752-581  
36.1 1435 9 US-10-176-482-581  
36.1 1435 9 US-10-176-757-581

#### ALIGNMENTS

RESULT 1  
US-09-897-465-2  
; Sequence 2, Application US/09897465  
; Patent No. US20020022715A1  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: McIntosh, J. Michael  
; APPLICANT: Yoshikami, Doju  
; APPLICANT: Cartier, G. Edward  
; APPLICANT: Luo, Siqin  
; APPLICANT: University of Utah Research Foundation  
; TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides  
; FILE REFERENCE: Uses of Alpha-Conotoxins  
; CURRENT APPLICATION NUMBER: US/09/897,465  
; CURRENT FILING DATE: 2001-07-03  
; PRIOR APPLICATION NUMBER: US 60/080,588  
; PRIOR FILING DATE: 1998-04-03  
; PRIOR APPLICATION NUMBER: US 60/070,153  
; PRIOR FILING DATE: 1997-12-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Conus magus  
US-09-897-465-2

Query Match 85.7%; Score 102; DB 10; Length 16;  
Best Local Similarity 100.0%; Pred. No. 7.3e-07;  
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCSNPVCHELSNLC 16  
Db 1 GCCSNPVCHELSNLC 16  
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RESULT 2  
US-09-897-465-3  
; Sequence 3, Application US/09897465  
; Patent No. US20020022715A1  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.

```
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Yoshikami, Doju
; APPLICANT: Cartier, G. Edward
; APPLICANT: Luo, Siqin
; APPLICANT: University of Utah Research Foundation
; TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides
; FILE REFERENCE: Uses of Alpha-Conotoxins
; CURRENT APPLICATION NUMBER: US/09/897,465
; CURRENT FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: US 60/080,588
; PRIOR FILING DATE: 1998-04-03
; PRIOR APPLICATION NUMBER: US 60/070,153
; PRIOR FILING DATE: 1997-12-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 17
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Tyr derivative
; OTHER INFORMATION: of C. magus MII
US-09-897-465-3
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Query Match 85.7%; Score 102; DB 10; Length 17;
Best Local Similarity 100.0%; Pred. No. 7.7e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 1 GCCSNPVCHEHSNLC 16
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Db 2 GCCSNPVCHEHSNLC 17
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RESULT 3
US-09-897-465-4
; Sequence 4, Application US/09897465
; Patent No. US20020022715A1
; GENERAL INFORMATION:
; APPLICANT: Olivera, Baldomero M.
; APPLICANT: McIntosh, J. Michael
; APPLICANT: Yoshikami, Doju
; APPLICANT: Cartier, G. Edward
; APPLICANT: Luo, Siqin
; APPLICANT: University of Utah Research Foundation
; TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides
; FILE REFERENCE: Uses of Alpha-Conotoxins
; CURRENT APPLICATION NUMBER: US/09/897,465
; CURRENT FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: US 60/080,588
; PRIOR FILING DATE: 1998-04-03
; PRIOR APPLICATION NUMBER: US 60/070,153
; PRIOR FILING DATE: 1997-12-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 16
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:FAT derivative
; OTHER INFORMATION: of C. magus MII
US-09-897-465-4
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Best Local Similarity 81.2%; Pred. No. 0.00021;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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Db 1 GCCSNPVCFATHSNLC 16
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RESULT 4

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US-09-991-496-22
; Sequence 22, Application US/09991496
; Patent No. US20020169285A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Coler, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS
; FILE REFERENCE: 210121.420C9
; CURRENT APPLICATION NUMBER: US/09/991,496
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Leishmania major
US-09-991-496-22
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Query Match 48.3%; Score 57.5; DB 9; Length 320;
Best Local Similarity 50.0%; Pred. No. 3;
Matches 10; Conservative 2; Mismatches 5; Indels 3; Gaps 1;
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Qy 3 CSNPV---CHLEHSNLTNG 19
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Db 214 CSSPTQPCVEHCNVCNG 233
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RESULT 5
US-09-991-496-55
; Sequence 55, Application US/09991496
; Patent No. US20020169285A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Coler, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS
; FILE REFERENCE: 210121.420C9
; CURRENT APPLICATION NUMBER: US/09/991,496
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Leishmania major
US-09-991-496-55
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Query Match 48.3%; Score 57.5; DB 9; Length 320;
Best Local Similarity 50.0%; Pred. No. 3;
Matches 10; Conservative 2; Mismatches 5; Indels 3; Gaps 1;
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Qy 3 CSNPV---CHLEHSNLTNG 19
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Db 214 CSSPTQPCVEHCNVCNG 233
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RESULT 6
US-09-874-923-22

; Sequence 22, Application US/09874923  
; Patent No. US20020081320A1  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Campos-Neto, Antonio  
; APPLICANT: Webb, John R.  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Bhatia, Ajay  
; APPLICANT: Coler, Rhea  
; APPLICANT: Probst, Peter  
; APPLICANT: Brannon, Mark  
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE  
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS  
; FILE REFERENCE: 210121.420C8  
; CURRENT APPLICATION NUMBER: US/09/874,923  
; CURRENT FILING DATE: 2001-06-04  
; NUMBER OF SEQ ID NOS: 122  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 22  
; LENGTH: 320  
; TYPE: PRT  
; ORGANISM: Leishmania major  
US-09-874-923-22

Query Match 48.3%; Score 57.5; DB 10; Length 320;  
Best Local Similarity 50.0%; Pred. No. 3;  
Matches 10; Conservative 2; Mismatches 5; Indels 3; Gaps 1;

QY 3 CSNPV---CHLEHSLNCTNG 19  
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Db 214 CSSPTTQPCVEHCNTCVNG 233

RESULT 7  
US-09-874-923-55  
; Sequence 55, Application US/09874923  
; Patent No. US20020081320A1  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Campos-Neto, Antonio  
; APPLICANT: Webb, John R.  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Bhatia, Ajay  
; APPLICANT: Coler, Rhea  
; APPLICANT: Probst, Peter  
; APPLICANT: Brannon, Mark  
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE  
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS  
; FILE REFERENCE: 210121.420C8  
; CURRENT APPLICATION NUMBER: US/09/874,923  
; CURRENT FILING DATE: 2001-06-04  
; NUMBER OF SEQ ID NOS: 122  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 55  
; LENGTH: 320  
; TYPE: PRT  
; ORGANISM: Leishmania major  
US-09-874-923-55

Query Match 48.3%; Score 57.5; DB 10; Length 320;  
Best Local Similarity 50.0%; Pred. No. 3;  
Matches 10; Conservative 2; Mismatches 5; Indels 3; Gaps 1;

QY 3 CSNPV---CHLEHSLNCTNG 19  
||:| | :|| | ||  
Db 214 CSSPTTQPCVEHCNTCVNG 233

RESULT 8  
US-09-991-496-121  
; Sequence 121, Application US/09991496

; Patent No. US20020169285A1  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Campos-Neto, Antonio  
; APPLICANT: Webb, John R.  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Bhatia, Ajay  
; APPLICANT: Coler, Rhea  
; APPLICANT: Probst, Peter  
; APPLICANT: Brannon, Mark  
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE  
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS  
; FILE REFERENCE: 210121.420C9  
; CURRENT APPLICATION NUMBER: US/09/991,496  
; CURRENT FILING DATE: 2001-11-20  
; NUMBER OF SEQ ID NOS: 137  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 121  
; LENGTH: 709  
; TYPE: PRT  
; ORGANISM: Leishmania major and chagasi  
US-09-991-496-121

Query Match 48.3%; Score 57.5; DB 9; Length 709;  
Best Local Similarity 50.0%; Pred. No. 5.9;  
Matches 10; Conservative 2; Mismatches 5; Indels 3; Gaps 1;

QY 3 CSNPV---CHLEHSLNCTNG 19  
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Db 603 CSSPTTQPCVEHCNTCVNG 622

RESULT 9  
US-09-874-923-121  
; Sequence 121, Application US/09874923  
; Patent No. US20020081320A1  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Campos-Neto, Antonio  
; APPLICANT: Webb, John R.  
; APPLICANT: Dillon, Davin C.  
; APPLICANT: Skeiky, Yasir A.W.  
; APPLICANT: Bhatia, Ajay  
; APPLICANT: Coler, Rhea  
; APPLICANT: Probst, Peter  
; APPLICANT: Brannon, Mark  
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE  
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS  
; FILE REFERENCE: 210121.420C8  
; CURRENT APPLICATION NUMBER: US/09/874,923  
; CURRENT FILING DATE: 2001-06-04  
; NUMBER OF SEQ ID NOS: 122  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 121  
; LENGTH: 709  
; TYPE: PRT  
; ORGANISM: Leishmania major and chagasi  
US-09-874-923-121

Query Match 48.3%; Score 57.5; DB 10; Length 709;  
Best Local Similarity 50.0%; Pred. No. 5.9;  
Matches 10; Conservative 2; Mismatches 5; Indels 3; Gaps 1;

QY 3 CSNPV---CHLEHSLNCTNG 19  
||:| | :|| | ||  
Db 603 CSSPTTQPCVEHCNTCVNG 622

RESULT 10  
US-09-897-465-5  
; Sequence 5, Application US/09897465  
; Patent No. US20020022715A1

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Qy      1 GCCSNPVCCHLEHSNLC 16
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Db      1 GCCSLPPCALNNPDYC 16

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## RESULT 14

US-09-897-465-12  
; Sequence 12, Application US/09897465  
; Patent No. US20020022715A1  
; GENERAL INFORMATION:  
; APPLICANT: Olivera, Baldomero M.  
; APPLICANT: McIntosh, J. Michael  
; APPLICANT: Yoshikami, Doju  
; APPLICANT: Cartier, G. Edward  
; APPLICANT: Luo, Sigin  
; APPLICANT: University of Utah Research Foundation  
; TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides  
; FILE REFERENCE: Uses of Alpha-Conotoxins  
; CURRENT APPLICATION NUMBER: US/09/897,465  
; CURRENT FILING DATE: 2001-07-03  
; PRIOR APPLICATION NUMBER: US 60/080,588  
; PRIOR FILING DATE: 1998-04-03  
; PRIOR APPLICATION NUMBER: US 60/070,153  
; PRIOR FILING DATE: 1997-12-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 12  
; LENGTH: 16  
; TYPE: PRT  
; ORGANISM: Conus purpurascens  
US-09-897-465-12

Query Match 42.0%; Score 50; DB 10; Length 16;

Best Local Similarity 50.0%; Pred. No. 1.9;

Matches 8; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCCSNPVCHEHSNLC 16

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Db 1 GCCSLPPCALSNPDYC 16

## RESULT 15

US-09-764-877-1910  
; Sequence 1910, Application US/09764877  
; Patent No. US20020147140A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PC005  
; CURRENT APPLICATION NUMBER: US/09/764,877  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - refer to PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 4031  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1910  
; LENGTH: 73  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-764-877-1910

Query Match 41.2%; Score 49; DB 10; Length 73;

Best Local Similarity 53.8%; Pred. No. 9.4;

Matches 7; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 CCSNPVCHEHSN 14

||| : : ||

Db 49 CCGFPICKLKNSN 61

Search completed: March 17, 2003, 07:29:19

Job time : 6.67176 secs

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